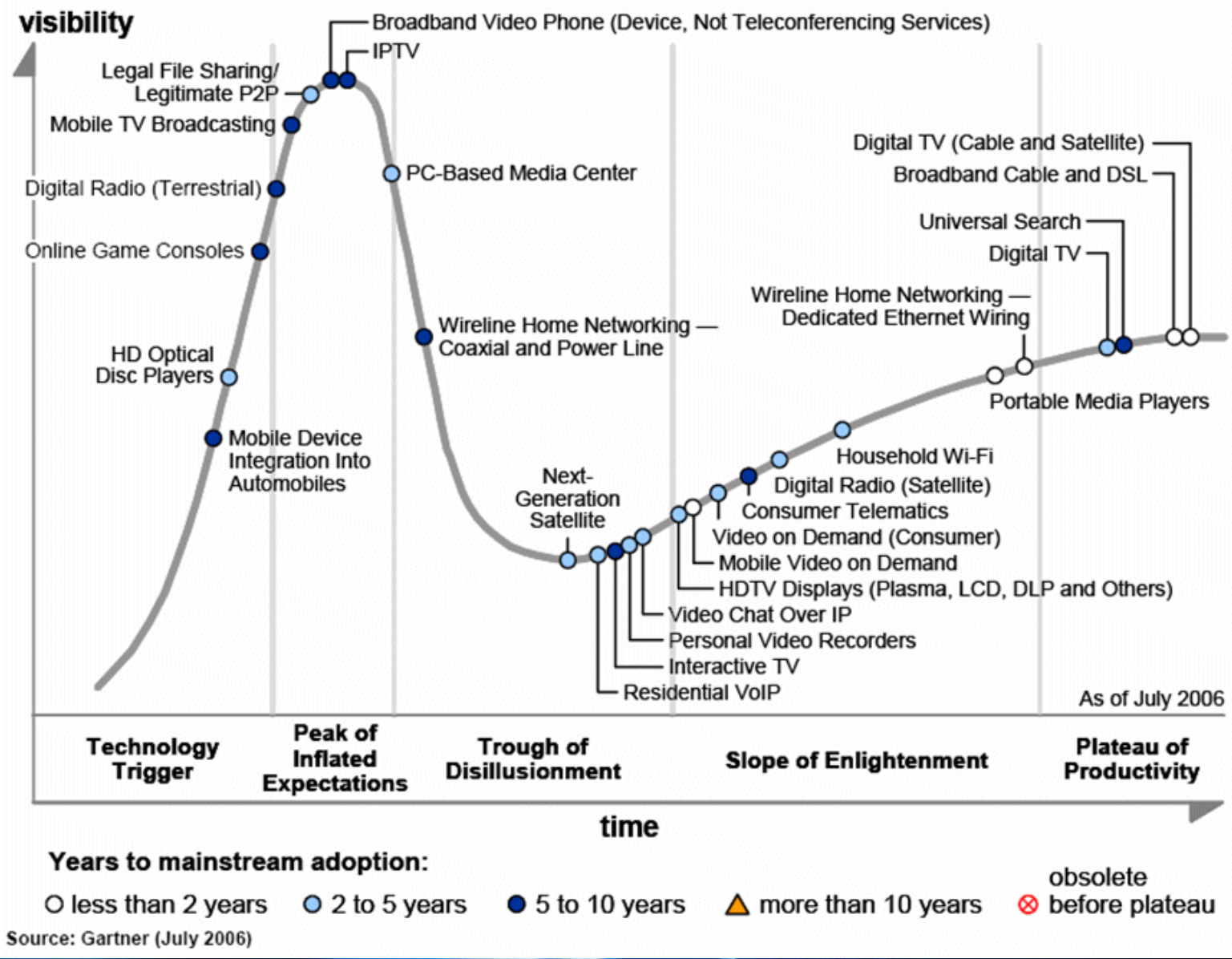


VEFRAMEWORK

Open Source and Technologies for All



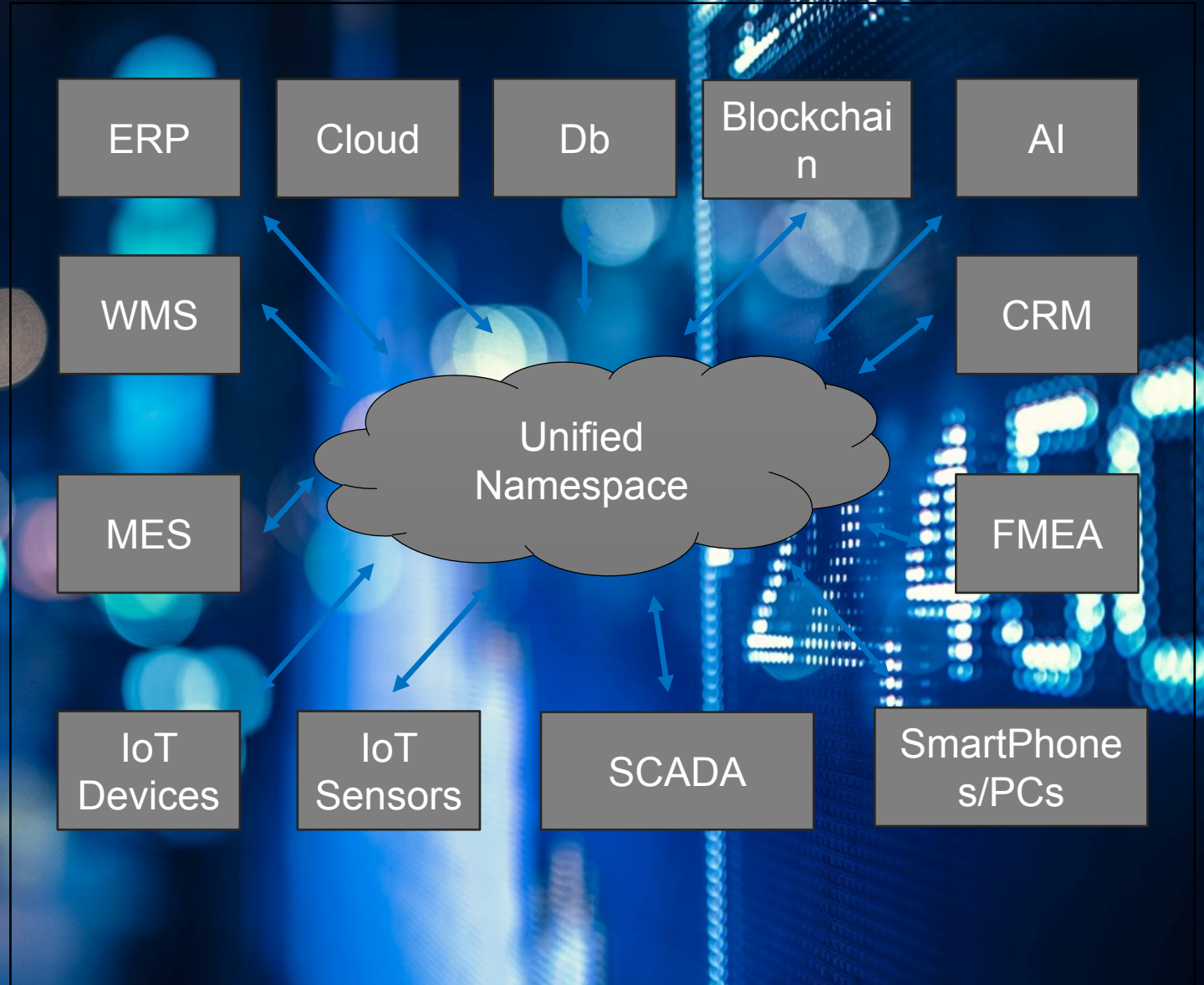
HYPE CYCLE



HYPE CYCLE

- Každá technologie či zásadní princip projde Hype Cycle
- Digitalizace nyní prochází píkem nafouknutých očekávání, tedy nutně nyní dojde ke zhroucení a standardizaci
- Paralelně však dochází k samostatným píkům i v oblasti kontejnerizace software, AI a dalších pro digitalizaci klíčových technologií.
- Toto ještě více násobí roztržitost prostředí.

UNIFIED NAMESPACE



UNIFIED NAMESPACE

- Základní architektura podle doporučení v rámci Industry40
- Je to nutné pro udržitelnost systému
- Stejný princip lze použít i při tvorbě aplikací – podobný model jsou „microservices“
- Bez zavedení tohoto principu nelze budovat moderní IT infrastrukturu

PROČ FRAMEWORK?

- Máme zásadní nedostatek IT expertů!
- Je nutné nastavit základní standardní platformu, která bude sloužit pro digitalizaci napříč společnostmi. Nelze mít desítky či stovky různorodých platforem, protože počet expertů je velmi limitovaný.
- Je nutné mít alespoň část jednotnou, podobně jako je tomu v případě webů a standardizovaného jádra „WordPress“ (dnes přes 50% webů je na WP).
- Projekt tohoto typu musí být Free OpenSource, jinak nebude plošně

HISTORY

2020

- Start PL Framework
- Vývoj jádra
- Vývoj UI
- PLC Vývoj
- Propojení s ThingWorX
- První dvě PoC na reálných výrobních linkách pro díly na Volvo a VW

2021

- PoC PLFramework pro výrobní linku na výrobu dílů pro Tesla
- Start VEFramework
- PoC řízení ABB Robota přes Blockchain
- PoC NFT Marketplace Wallet – VENFT
- PoC Digitální publikování na Blockchainu

2022

- Nová knihovna UI komponent VEBlazor
- BaseDataPlace dApp
- Coruzant dApp
- IPFS node pro vývojáře
- Storage Driver (ve vývoji)

HLEDÁME
POMOC

- Operativní management
- Programování
- UX/UI
- Strategičtí partneři (nadace, neziskovky, firmy, stát)
- Marketing
- Finanční pomoc
- Pomoc s právem a regulacemi

FRAMEWORKS

PL Framework
– Unified
Namespace
Controler pro
Výrobní linky a
technologie

Database

Blockchain

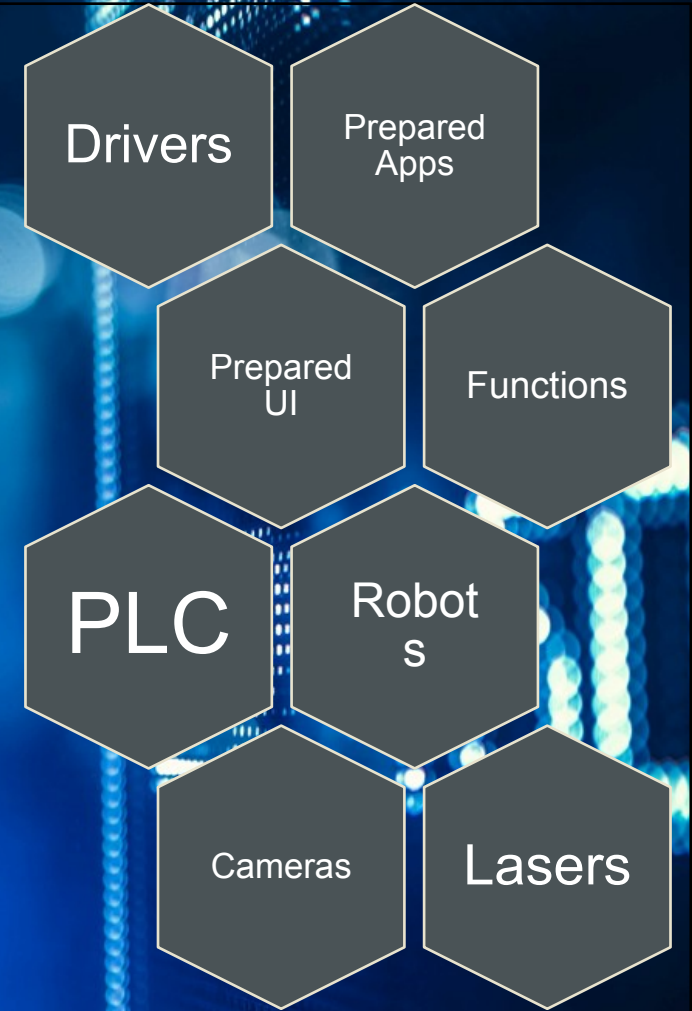
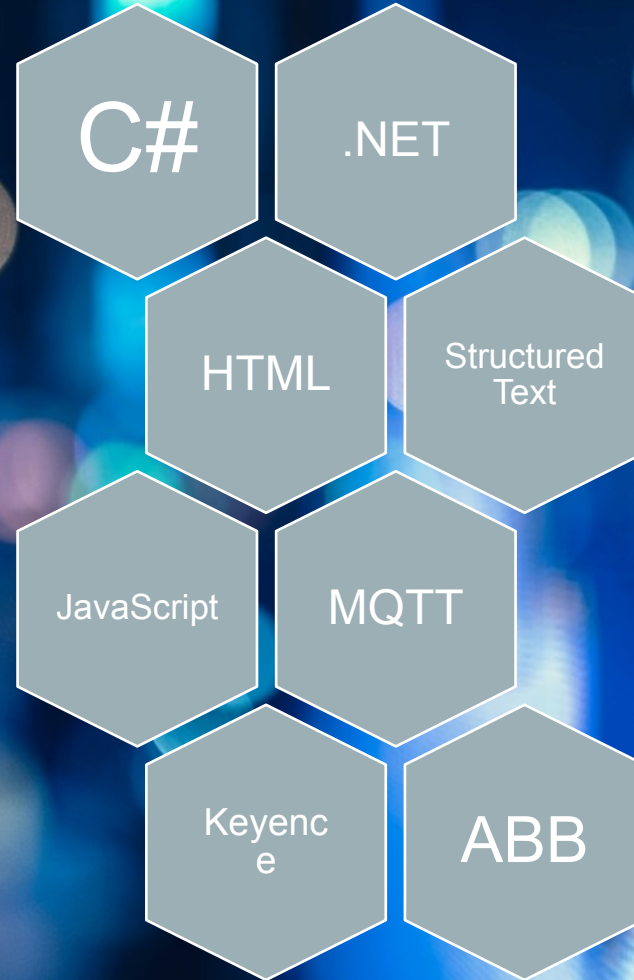
IoT Protocols

APIs

VE Framework
– Unified
Namespace
Controler pro
Ekonomické a
Datové aplikace

PL FRAMEWORK

PL Framework



PLFRAMEWORK

- Zavádí architekturu popsanou výše na úroveň řízení výrobních linek a technologií
- Zrychlil napsání SW po dodání linky z 6 měsíců na týden
- Byl v praxi ověřen na různých typech výrobních linek

PL VIEW John Doe (admin)

Simulation of the Production Line

Pallet Handling

Pallet

Available Pallets ↻

Add NewPallet Load Product To Pallet

Multiple Random Pallets

10 ▾

Station

Available Stations ↻

SubOpTo Fail

None

Actions

Load To the Handler

Load Multiple Pallets To the Handler

Load To the Station

Process Log

Download Log From Simulator Browse... simulatorLog-1609405561689.json Load Log From File

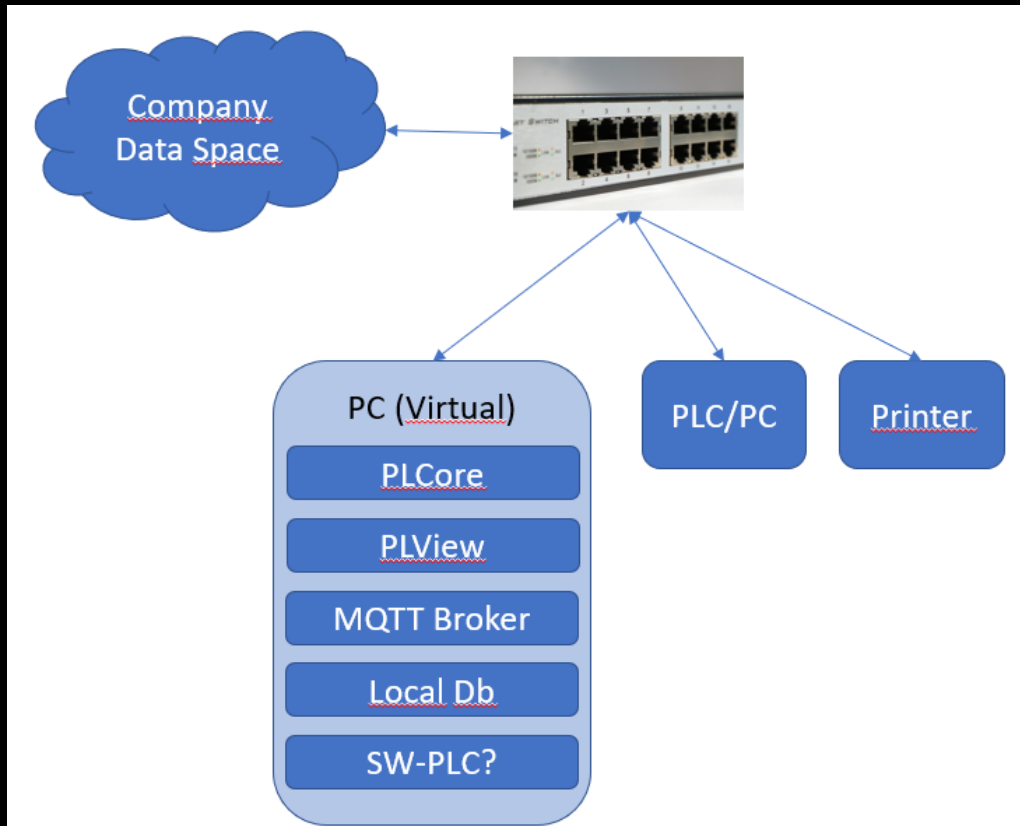
Filter log



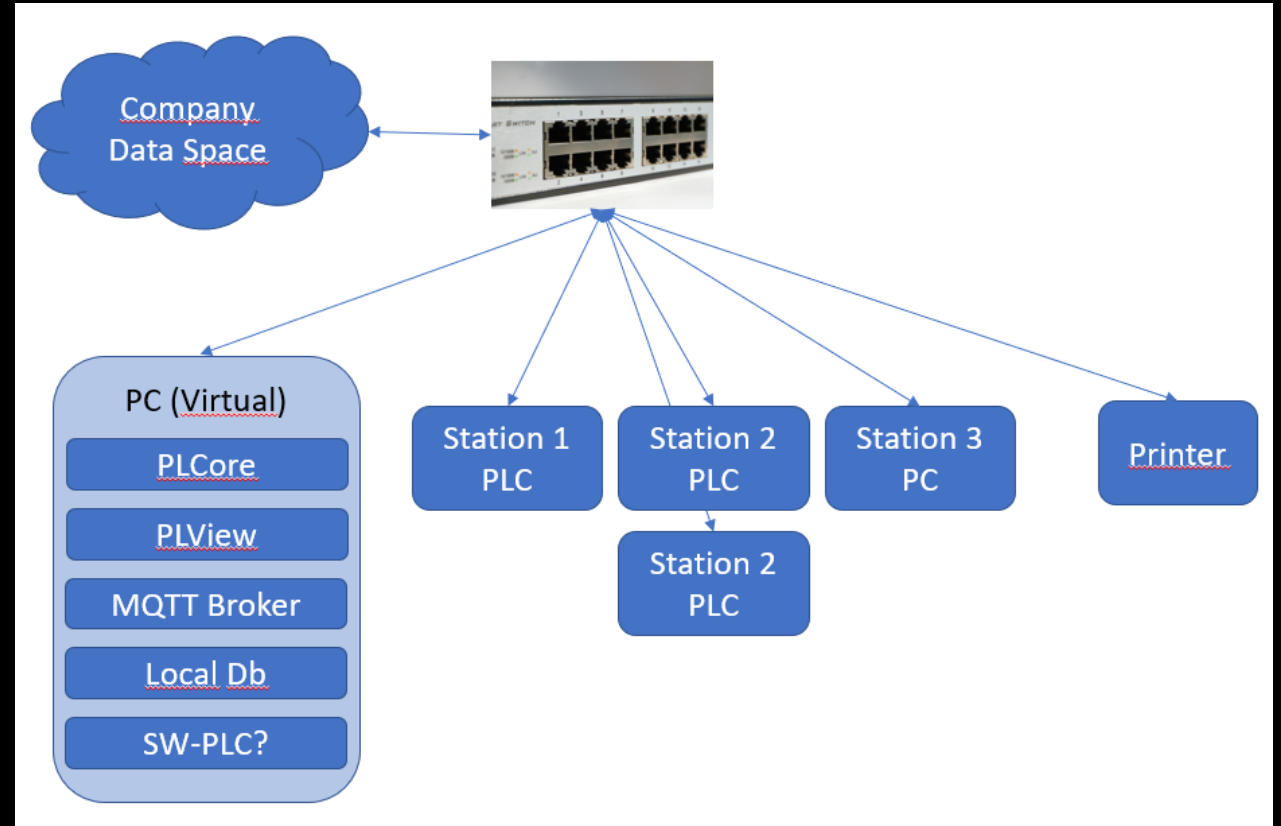
Classic cylinders

<p>C5.1 ClampingBed</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.2 ClampingPart</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.4 PressingLock</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.5 PressingHandle</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.6 ExtensionRightChuck</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇
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<p>C5.7 ExtensionMeasurePen</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.8 ExtensionIncorrectChuck</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.9 SideShift</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>C5.10 ArrestExtension</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇	<p>TESTVALVE TestValve</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>State</th><th>Re.Time</th><th>Ex.Time</th></tr> <tr><td>None</td><td>0</td><td>0</td></tr> <tr><td>↑</td><td>↓</td><td>📄</td><td>🔇</td></tr> </table>	State	Re.Time	Ex.Time	None	0	0	↑	↓	📄	🔇
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Jedna stanice

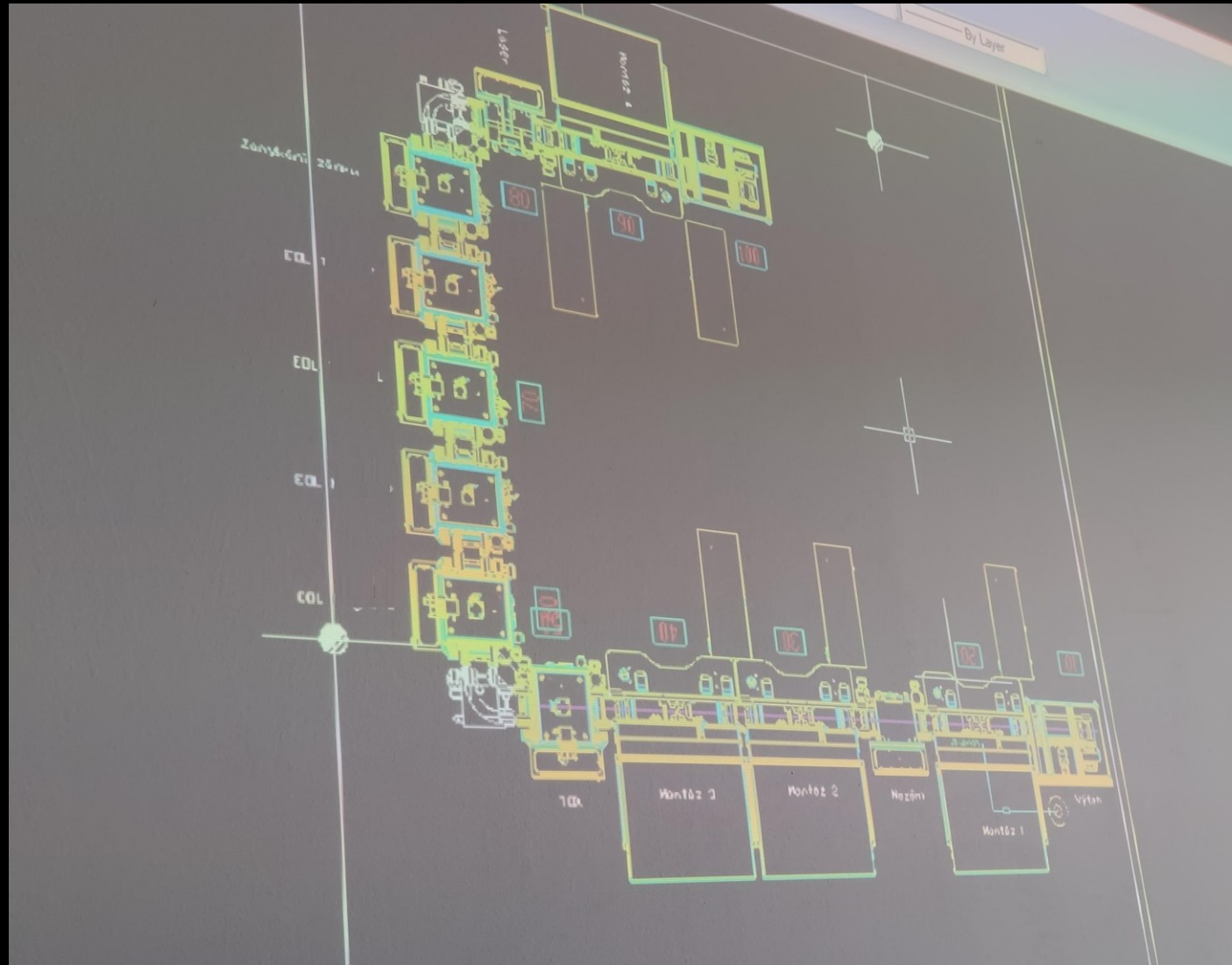


Vícero stanic

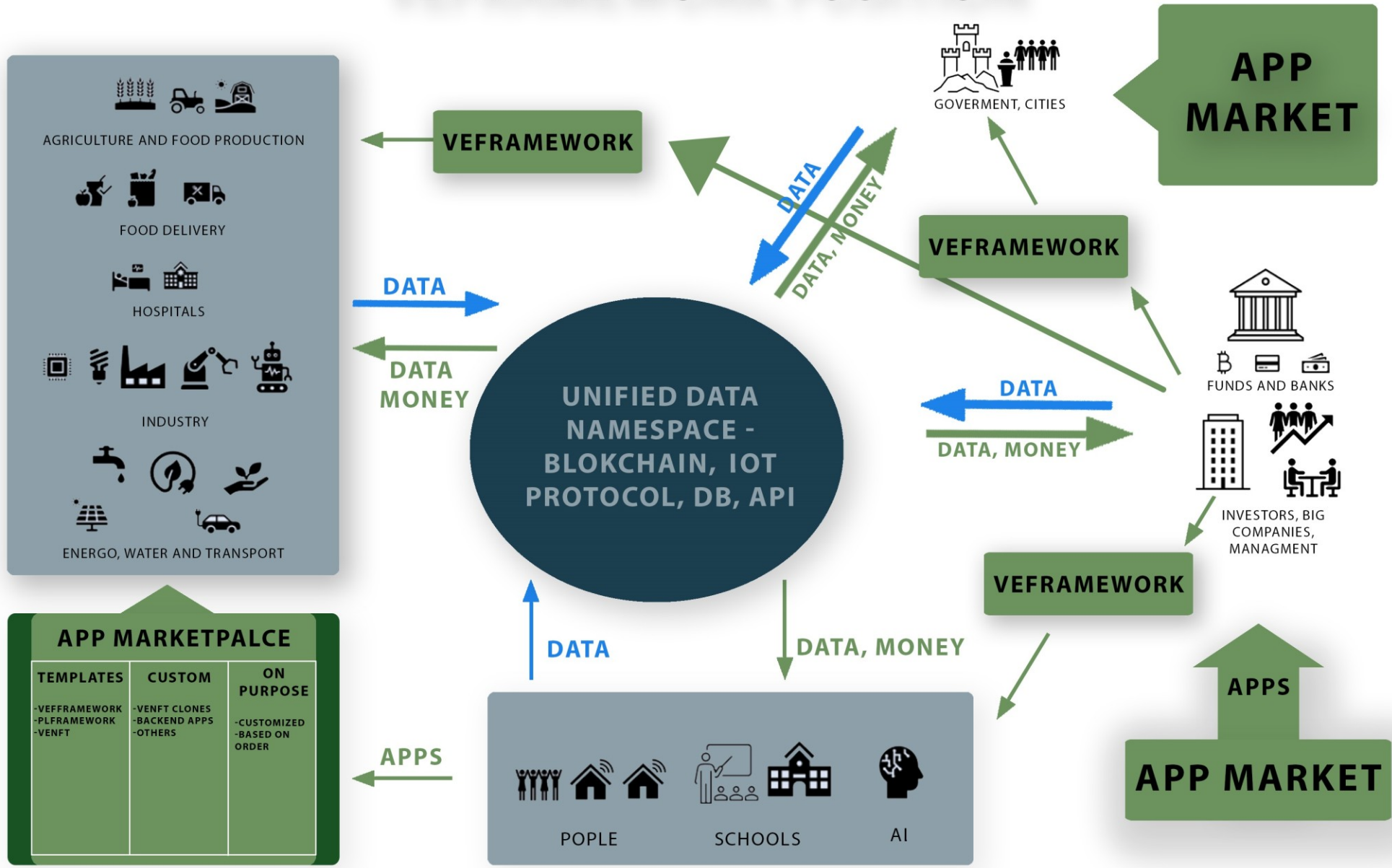




Flexibilní Výrobní linky

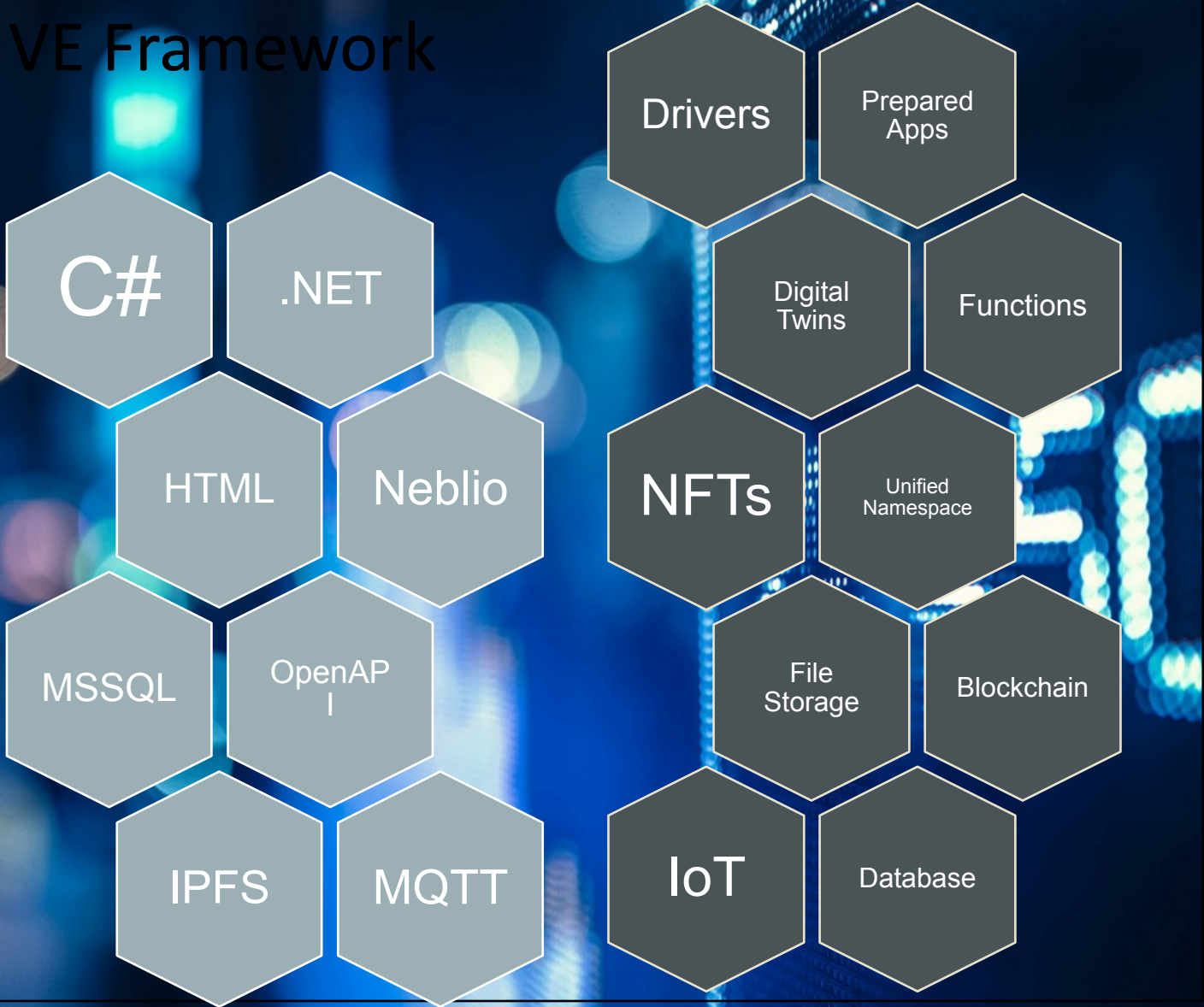


VEFRAMEWORK POSITION



VE FRAMEWORK

VE Framework



VEFRAMEWOR K

- Zavádí architekturu popsanou výše na úroveň orchestrace systémů a obecně dat
- Aplikaci lze vytvořit v řádu hodin
- Byl v praxi ověřen na různých typech projektů napříč obory, viz příklady dále

VE FRAMEWORK

VE FRAMERWORK

DRIVERS

NEBLIO API
WRAPPER

VEDRIVERSLITE

VEDRIVERS

APPS

VECONOMY
APP

VENFT
BANNER APP

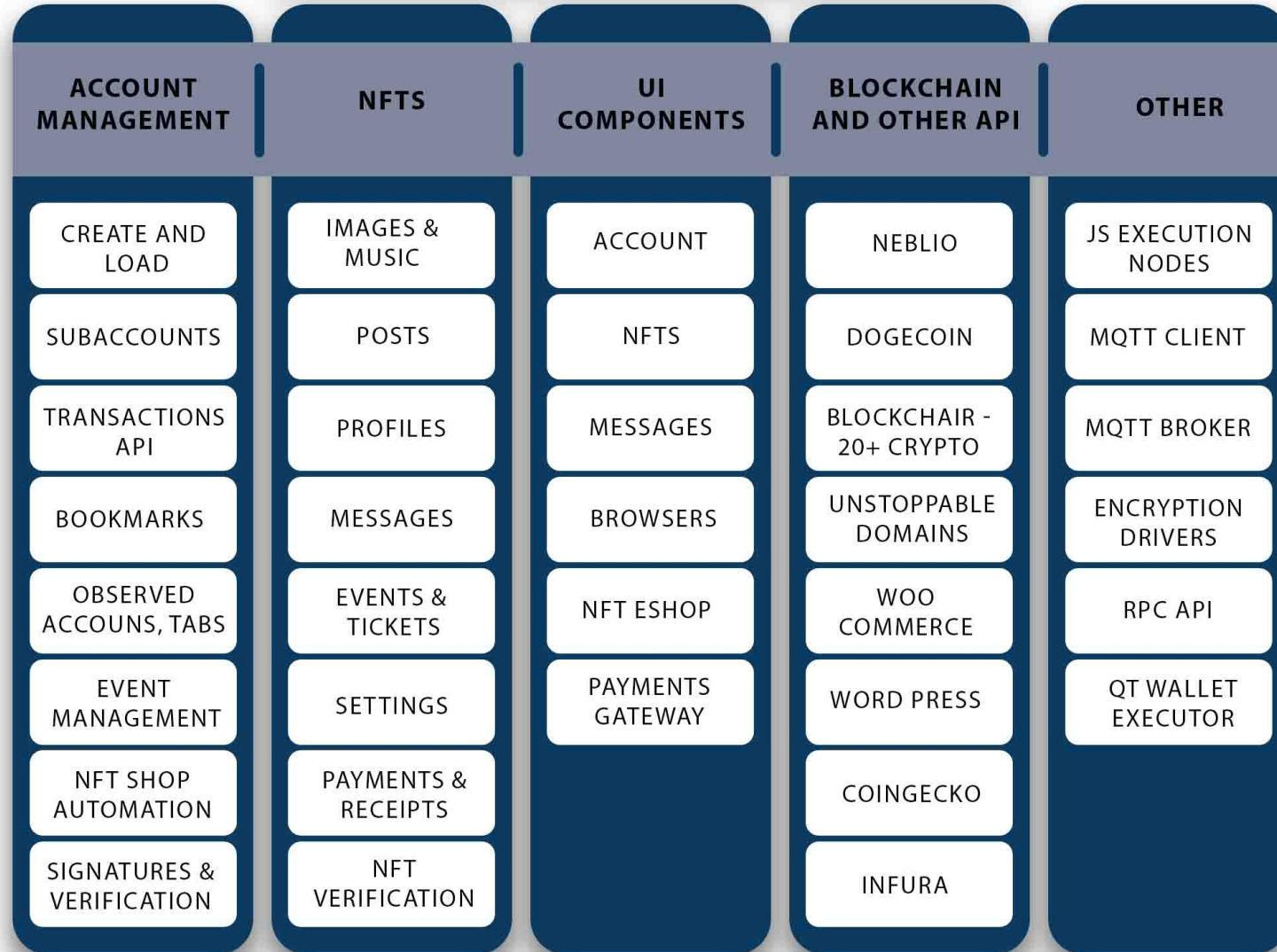
VENFT
ONE PAGE APP

VENFT
BLAZOR APP

VENFT APP
SERVER

VE FRAMEWORK

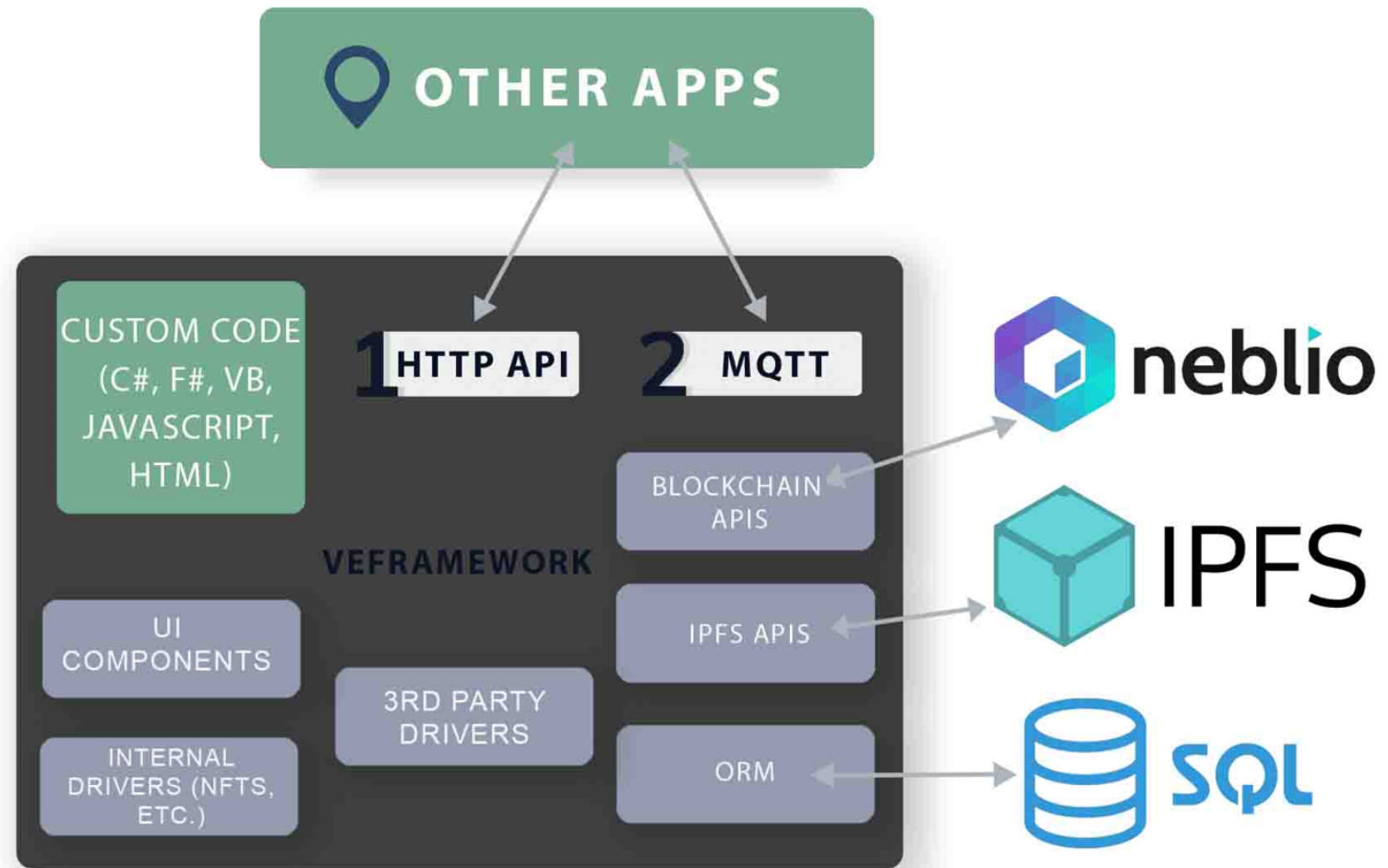
INTERNAL DRIVERS (NFTS, ETC.)



MAIN 3RD PARTY DRIVERS



VE FRAMEWORK



VENFT App Web Wallet


VENFT About and Help

Main Account

NQhy34DCWjG969PSVWV6S8QSe1MEbpWh7

Actual Balance: 1,644 NEBL
Unconfirmed Balance: 0 NEBL
Source Tokens Balance: 881 VENFT; 500 CORZT
NFTs: 35



Profile


Tomas Svoboda
fyziktom
Neblio is great :)
[Webpage](#)
[Edit Profile](#)

Received NFT Payments

Sender NFT Price Details
You dont have any received payments now.

Tokens Supplies

Image	Symbol	Amount
	VENFT	861
	CORZT	500

VENFT About and Help

My NFTs

Nida5tE81XcWwWkUaRQ6NvafSpoh3TpeD

Actual Balance: 2,729 NEBL
Unconfirmed Balance: 0 NEBL
Source Tokens Balance: 180 VENFT; 88 CORZT
NFTs: 12

Main Account NFTs

VENFT Coruzant

Images Posts Music Tickets Events

- Mouse**
fyziktom
My Artwork - Mouse
- DOGEFT Loves You NFT**
@antiqueodge
Promoting Functional Adoption of Dogecoin
- DOGEFT Love You NFT**
@antiqueodge
Promoting Functional Adoption of Dogecoin
- FAREWELL - The Final Tour of the music**
fyziktom
The Final Tour of the music.
- FAREWELL**
fyziktom
The Final Tour of the music.

VENFT

NFT Details

VEFramework Courses - Part 1

System

Description
First course about Neblio Blockchain and how to apply it.

Tags
#programming #Blockchain #Neblio #doge


First Course

- Why to use blockchain?
- Where it makes sense?
- How blockchain works?
- What are NFTs Tokens?
- How to write first console app in C#

Event Details
Date: 16.07.2021 12:00
Location: Online
Author Link
Video Link
Event Type
Meeting

[Load NFT History](#)

Dogeft.com Web






Need Help ? [About and Help](#)


With Address:

Select Account ▾

NX3dsEYXeyCczzz8VqKwoZLUAmhZEM1xnz

NX3dsEYXeyCczzz8VqKwoZLUAmhZEM1xnz  

Actual Balance: 0.0001 NEBL 

Unconfirmed Balance: 0.0048 NEBL 

Source Tokens Balance: 0 VENFT/ 17 WDOGE

NFTs: 1

Mint it with Source tokens:



  WDOGE - 17

Image - Original Post - Reusable Music/Video - Original Event Ticket WdogeProfile

WdogeArticle

Name

Genesis Doge

Author

antiquedoge

Webpage

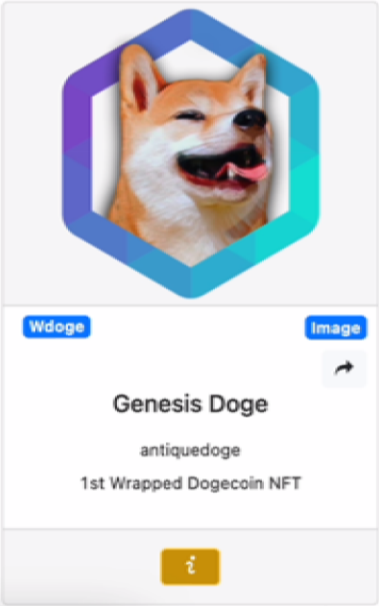
Add your webpage



Description

1st Wrapped Dogecoin NFT

Remaining 276 from 300 characters.

The 10 Newest NFTs




Wdoge  Image 

Genesis Doge

antiquedoge

1st Wrapped Dogecoin NFT



New VENFT App

VENFT

VENFT / Home

Home

Gallery

+ New Ticket

+ New Event

+ New Post


? Introduction

Account

Logout

About

Profile

 **Tomas Svoboda**

fyziktom

Bio

I love coding :)

Edit

Balances

Your Address

Nh7712QcTBT49NA7f9sB3WqX5WjbGLUmo8

Neblio: 21,0087 NEBL

Unconfirmed: 0 NEBL

Tokens: 1905 VENFT

Tokens: 1905 VENFT

NFTs: 23

Backup!

VENFT is distributed app (dApp) for storing and creating NFTs using [Neblio Blockchain](#) and [VEFramework](#).
Blockchain address and key cannot be restored by 3rd party.
Important to do backup.
Please backup your private key by storing the backup file securely. This can be used to restore your account at any time.

Backup

Bookmarks + Add

NFT Sales

Payments Receipts

No NFT Payment found.

Transactions History + Add

Number Of Transactions: 121

↓	Receiver NfzBf8eeqJ71zHf29npwYwEPkiWYZZ...	22.08.2022 14:02:29	Details
↓	Receiver NfzBf8eeqJ71zHf29npwYwEPkiWYZZ...		Details

New VENFT App

VENFT

Home

Gallery

New Ticket

New Event

New Post

Introduction

Account

Logout

About

Gallery

VENFT / Gallery


My Gallery New Tab

Address: Nh7712QcTBT49NA7f9sB3WqX5WjbGLUmo8 ☆ ↻

Search...

#VEFramework #Neblio #.NET #Blazor #OpenSource

Search by Tags. Search is not case sensitive.



Example logo

Example of the New logo.


VENFT NFT Post

Buy Me :) #logo

#marketing #design

#logomanual

i



My 32 Birthday

my birthday party before

Christ years


VENFT NFT Ticket

Buy Me :) #FreeToUse

#birthday #party

#freedom

i



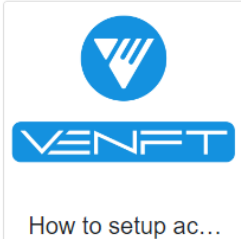
Tree Artwork

My Artwork - Tree

VENFT NFT Post

#artwork #nature #tree

i



How to setup ac...

Simple video, how to setup the account in VEBlazor based apps

VENFT NFT Post

Gallery #VEFramework

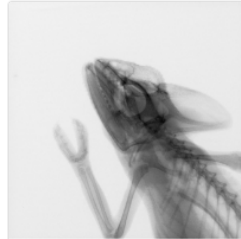
#Dogecoin

#DogepaloozaApp

#Dogepalooza

#Dogefit #VENFT

i



My 32 Birthday

my birthday party before

Christ years

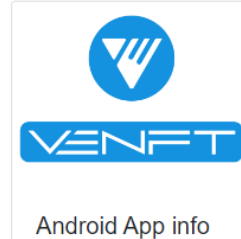
VENFT NFT Ticket

Buy Me :) #FreeToUse

#birthday #party

#freedom

i




Android App info

answer about the android venft app

VENFT NFT Post

i



Jello Shots


Jello Shots Shots Shots

Shots


VENFT NFT Post

#Jello #Shots


i




i




APP




i




HTML



i



i



VENFT

New Coruzant.com publishing



Featured Profiles



Kevin Keenahan

Kevin Keenahan is Health Tech, Entrepreneur in Baltimore, MD, USA.

[Read more](#)



Ron Gura

Ron Gura is Technology, Entrepreneur in Tel Aviv, Israel.

[Read more](#)



Aisha Bowe

Aisha Bowe is Founder & CEO in Aerospace, STEM.

[Read more](#)



Preet Anand

Preet Anand is Technology, Safety, Automotive in San Francisco, CA, USA.

[Read more](#)



Dr. Ben Goertzel

Dr. Ben Goertzel is Listen to Ben's Podcast!

[Read more](#)



New Coruzant.com publishing



Preet Anand
Technology, Safety, Automotive

Copy Share Link

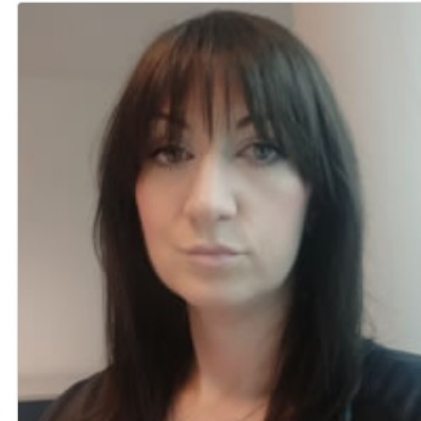
He previously started and sold Patronus, a company focused on making 911 calls smarter – over 6,000 lives have been saved by RapidSOS, the acquirer. His long term mission is to perpetuate long term free will. He does this by applying technology to mitigate risk and enhance safety.

#AI #Automotive #MachineLearning #Safety #Technology

The Digital Executive
Making the World Safer One Person at a Time
00:00 | 07:28

x

Featured Profiles



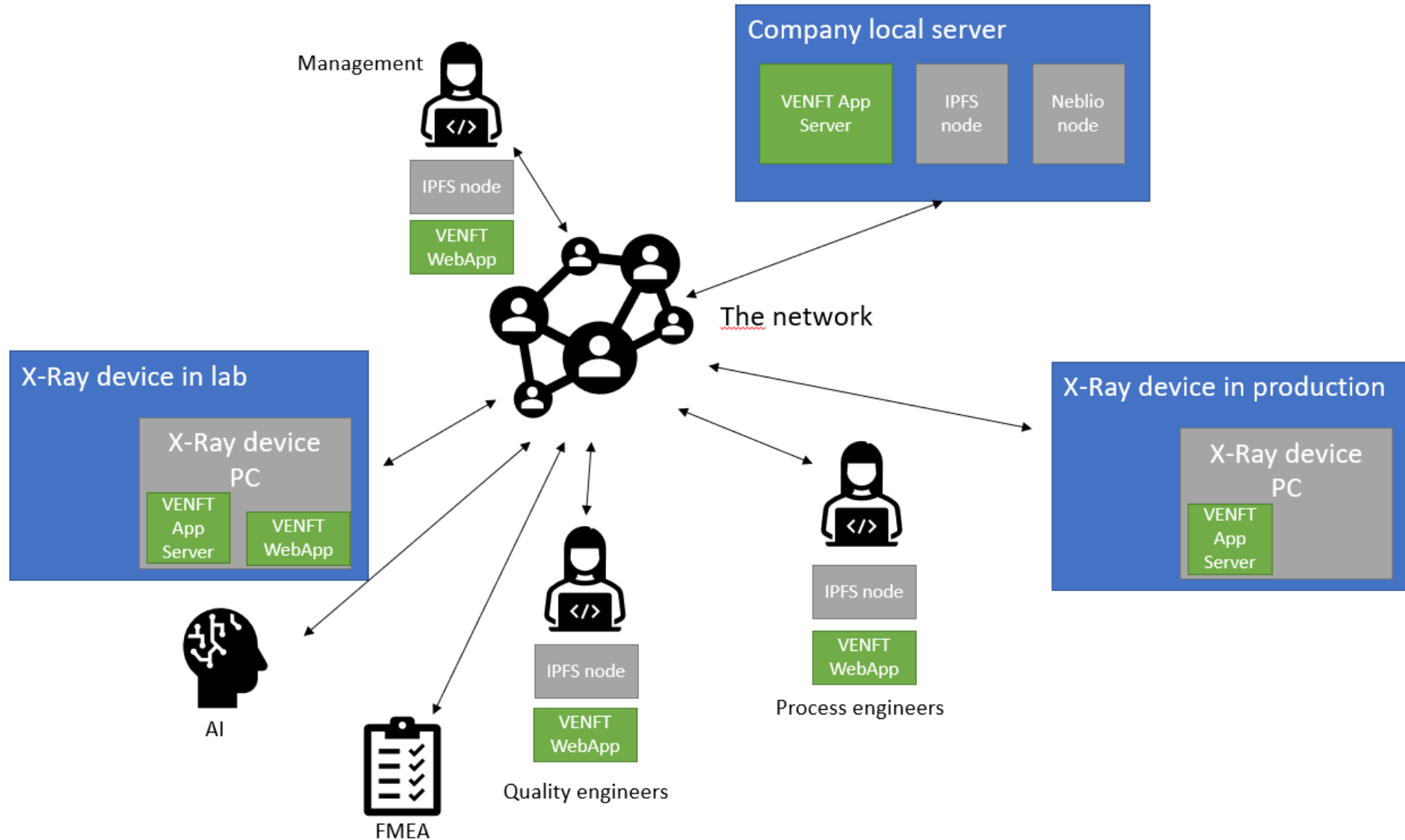
Dubravka Krizman

Dubravka Krizman is Senior QA Tester in Marketing & Advertising.

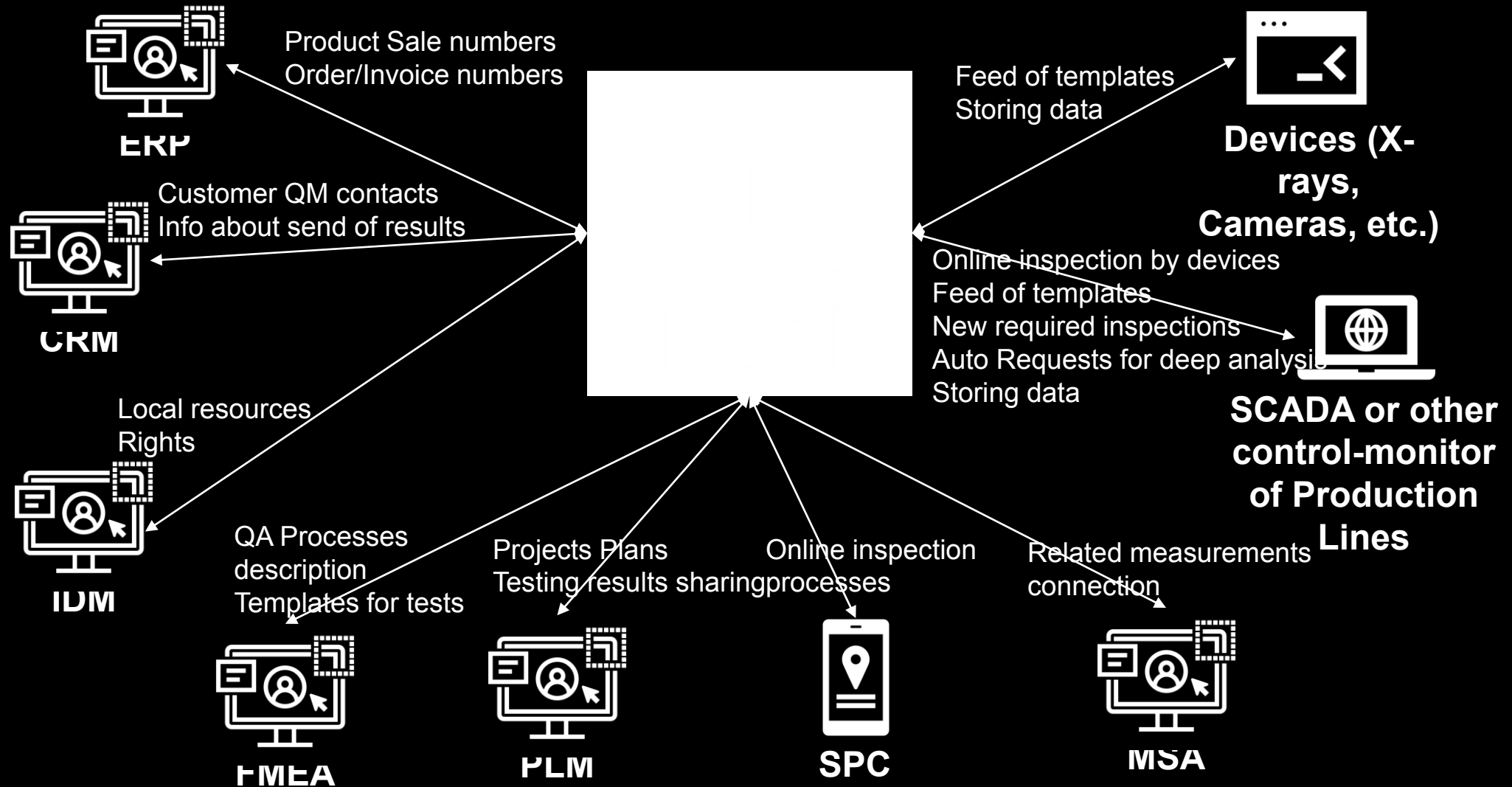
Read more



Storage of Xray



Storage of Xray images - BaseDataPlace



BaseDataPlace

BaseDataPlace

Home Gallery Add New

Data Gallery

My Gallery AT - Zdenek MacOS New Tab

Address: me - NeE...pH1

Search...

#ASAP #HELP #NG #OK #SOLVED

Search by Tags. Search is not case sensitive.

ProductFinished...

BDP NFT XrayImage

Gallery #Production

#P-UID-VolvoZamek-P-OP00a01

#PLUID-113995084

#OID-ID654321 #OP-123

#TP1_-_Place_part

i

ProductFinished...

BDP NFT XrayImage

Gallery #Production

#P-UID-VolvoZamek-P

#PLUID-113995084

#OID-NOT_SPECIFIED

#OP-0

#TP19_-_FinalPacking

#ASAP #HELP #NG

i

JSON

BDP NFT XrayImage

Gallery #Production

#P-UID-VolvoZamek-P-OP00a01

#PLUID-113995084

#OID-ID654321 #OP-123

#TP1_-_Place_part

i

BGA Soldering - ...

Voids in the BGA soldering balls.

BDP NFT XrayImage

Gallery #soldering

#BGA #voids

#BallGridArray

#ElectronicsAssembly

#OK #SOLVED

i

BGA Soldering - ...

Voids in the BGA soldering balls.

BDP NFT XrayImage

Gallery #soldering

#BGA #voids

#BallGridArray

#ElectronicsAssembly

#NG #ASAP #HELP

i

Aluminum Cast ...

Aluminum Cast Porosity.

This reduce the strength of the product.

BDP NFT XrayImage

#porosity #casting

#aluminum

#smallproduct #ng

#ASAP #HELP

i

BGA Soldering - ...

Voids in the BGA soldering balls.

BDP NFT XrayImage

#soldering #BGA

#voids #BallGridArray

#ElectronicsAssembly

#OK #SOLVED

i

Account

BaseDataPlace

BaseDataPlace

- Home
- Gallery
- + Add New

Data Gallery

BDP / Gallery

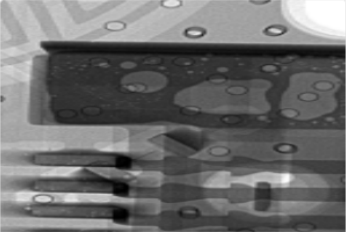
My Gallery AT - Zdenek MacOS New Tab

Address: me - NeE...pH1

SOLVED* Search...

#ASAP #HELP #NG #OK #SOLVED

Search by Tags. Search is not case sensitive.



BGA Soldering - NG

Voids in the BGA soldering balls.

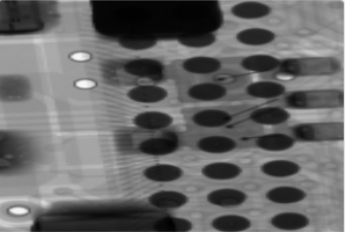
BDP NFT Xrayimage Gallery

#soldering #BGA #voids

#BallGridArray #ElectronicsAssembly

#OK #SOLVED

i



BGA Soldering - NG

Voids in the BGA soldering balls.

BDP NFT Xrayimage #soldering

#BGA #voids #BallGridArray

#ElectronicsAssembly #OK #SOLVED

i

Account

BaseDataPlace

BaseDataPlace

Home Gallery Add New

Data Gallery

My Gallery

Address: m

Search...

#ASAP #HELP

Search by Tags. S

ProductFink

BDP NFT XrayImage Gallery #Production #P-UID-VolvoZamek-P-OP00a01 #PLUID-113995084 #OID-ID654321 #TPI_-_Place_part

Account

ProductFinished_VolvoZamek-P-OP00a01@01-05-2022T20_16_49_131 - Details

Basic Info

Preview Editor Save

```
sequenceDiagram
    participant Alice
    participant Bob
    participant SortingWorkplace
    participant Laboratory
    Alice->>Bob: New task
    Bob->>SortingWorkplace: deliver them last 500pcs from this part
    Alice->>SortingWorkplace: Test for possible error234
    SortingWorkplace-->>Alice: OK Send directly to Fred
    Alice->>Laboratory: NG Send directly to Laboratory
    Laboratory-->>Alice: Do the CT scan of all NG
    Alice->>Laboratory: Prepare presentation of most critical NG scans
```

BDP NFT XrayImage Gallery #Production #P-UID-VolvoZamek-P-OP00a01 #PLUID-113995084 #OID-ID654321 #OP-123 #TPI_-_Place_part

Copy Share Link

Xray Parameters

Voltage 100 kV

Current 240 uA

Time 61 ms

Actions

Open In Work Tab

Show QR Code

Send

Recycle

Set Price

IPFS Storage Info

Image IPFS Storage info:

Copy Link Copy Hash

Open Image Link

BGA Soldering - ...

Voids in the BGA soldering balls.

BDP NFT XrayImage #soldering #BGA #voids #BallGridArray #ElectronicsAssembly #OK #SOLVED

BaseDataPlace

BaseDataPlace

Data Gallery

Home
Gallery
Add New

My Gallery

Address: m

Search...

#ASAP #HELP

Search by Tags. S

Product Finis

BDP NFT Xr

Gallery #Produc

#P-UID-VolvoZam

#PLUID-11399508

#OID-ID654321



#TPL-Place_pa

Account

BDP / Gallery

ProductFinished_VolvoZamek-P-OP00a01@01-05-2022T20_16_49_131 - Details

Basic Info



```
palletID: "Pallet1"
UniqueID: "VolvoZamek-P-OP00a01@01-05-2022T20_16_49_131"
IsOK: true
times:
  OP-000001-CheckPart: "00:00:00.9396986"
  OP-010001-PlacePart: "00:00:04.1674742"
ActualCarriedProduct:
  UniqueID: "VolvoZamek-P-OP00a01@01-05-2022T20_16_49_131"
  Name: "VolvoZamek-P-OP00a01"
  Type: "CL40"
  IsOK: true
  ProductionOrderID: "ID654321"
  OperationBarcodeID: "123"
  ProductionLineID: "113995084"
  CarriedOnPallet: "Pallet1"
  IsWrittenInDb: false
  IsEtalon: false
  ActualOperation: { Name: "DEFAULT", UniqueID: "DEFAULT", IsDone: false, ... }
  Operations: [ { ... }, { ... } ]
  FirstStationChainPosition: 1
  LastStationChainPosition: 2
  StationMarkedAsNOKToSeparate: "DEFAULT"
  IsNOKToSeparate: false
```

Xray Parameters

Voltage	Current	Time
0 kV	0 uA	0 ms

Actions

- Open In Work Tab
- Show QR Code
- Send
- Recycle
- Set Price

IPFS Storage Info

Image IPFS Storage info:

- Copy Link
- Copy Hash
- Open Image Link

Blockchain Storage transaction info:

- Copy Tx Hash
- To Explorer

BaseDataPlace

BaseDataPlace

Home
Gallery
Add New

Account
Logout
About

Data Gallery

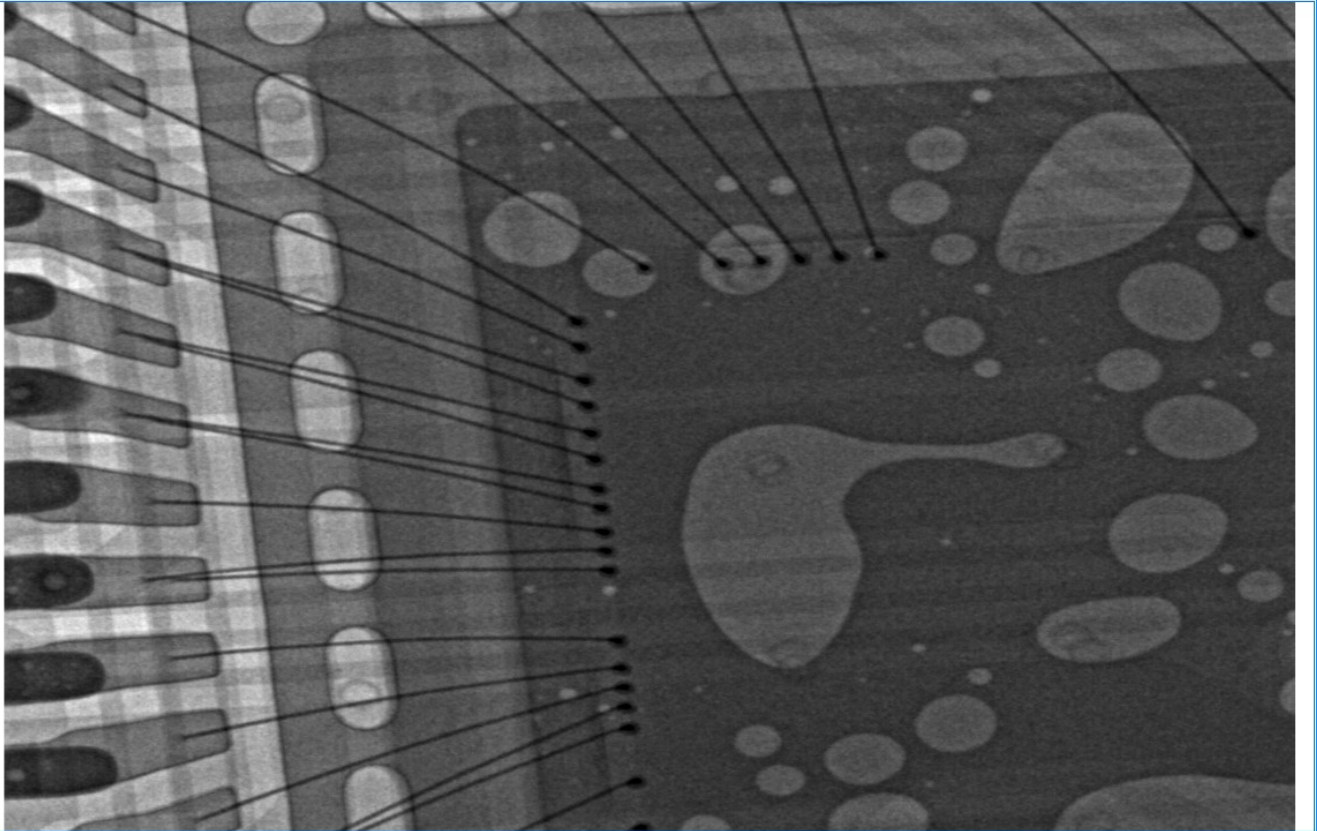
BDP / Gallery

My Gallery WT - New1 New Tab

WorkTab - New1

Voids in termal pad soldering #Voids #soldering #heatsink #ng

- Tools
- Edit properties
 - Name
 - Tags
 - Description
 - Text
 - Xray Parameters
- Add Flag
- Image Tools
- Share
- Save
- Reset to defaults
- Send
- Send Copy
- Delete



BaseDataPlace

The screenshot displays the BaseDataPlace interface. A modal dialog titled "Send Copy of the NFT" is centered on the screen. The background shows a "Data Gallery" with a "BGA Soldering - NG - Details" page. The dialog contains the following elements:

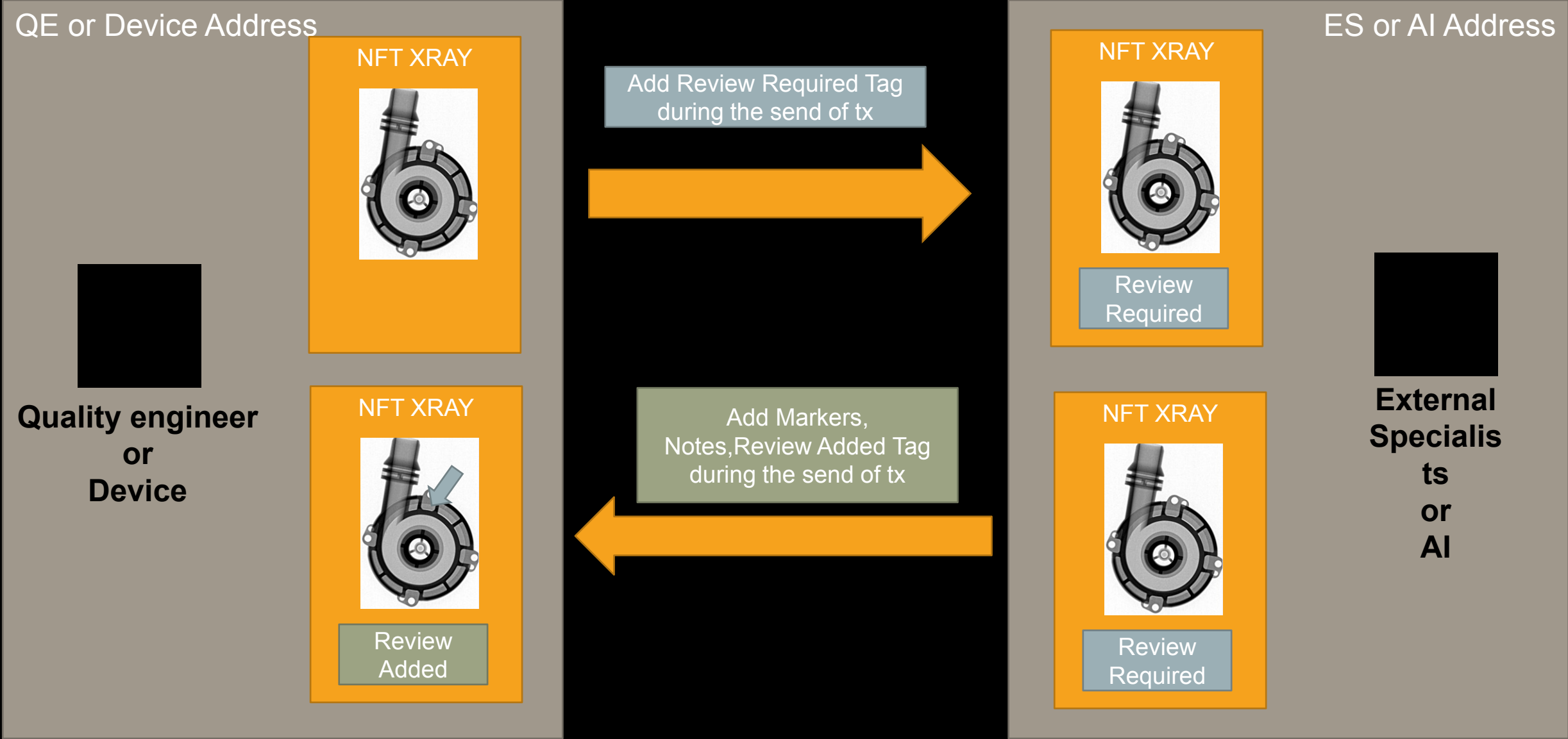
- Send just Copy
- Do you really want to Send **Copy** of this NFT? You cannot take this action back.
- Please enter the Neblio Address
- Address field: with a star icon and a green checkmark.
- Text: Please enter the Neblio Blockchain Address. You can use Unstoppable Domains name if Address has some.
- Section: Edit Tags before Send
- Tags field: with a green checkmark.
- Tags below:
- Button: Yes, I understand. Send Copy of the NFT now.

The background page includes:

- Navigation: Home, Gallery, Add New.
- Search: Search..., Search by Tags.
- Product Info: ProductFin...
- Image Gallery: A grid of images showing BGA soldering details.
- Text: Voids in the BGA soldering balls.
- Tags:
- Buttons: Copy Share Link, Copy Hash, Open Image Link, Copy Tx Hash, To Explorer.
- Text: Blockchain Storage transaction info:
- Section: Description (partially visible: This cause the cracks of the joints. It can also change the

BaseDataPlace – data exchange

example



Partners of VEFramework



Lowenware

PURE CREW

mib:con



HEDO Praha
TECHNICAL TRANSLATIONS



About me – Never give up 😊

SCHOOL PROJECT
2010

COMMERCIAL DEVICES
2018





THANK YOU!

[Tomas Svoboda](#)

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